

## 2005 Maintenance and Operations Highlights

The purpose of the MCDOT Roadway Maintenance Program is to provide safe, smooth and cost-effective roads to the traveling public. Key results of our successes are measured by the percentage of arterial road mileage with pavement condition rating of "good" or better. Currently 95.6% of MCDOT's arterials meet this rating.

MCDOT budgets its maintenance expenditures into five major categories:

- Surface treatments
- Routine maintenance
- General maintenance
- Major repairs
- Traffic operations

These categories account for almost \$27 million annually.

### Surface Treatments

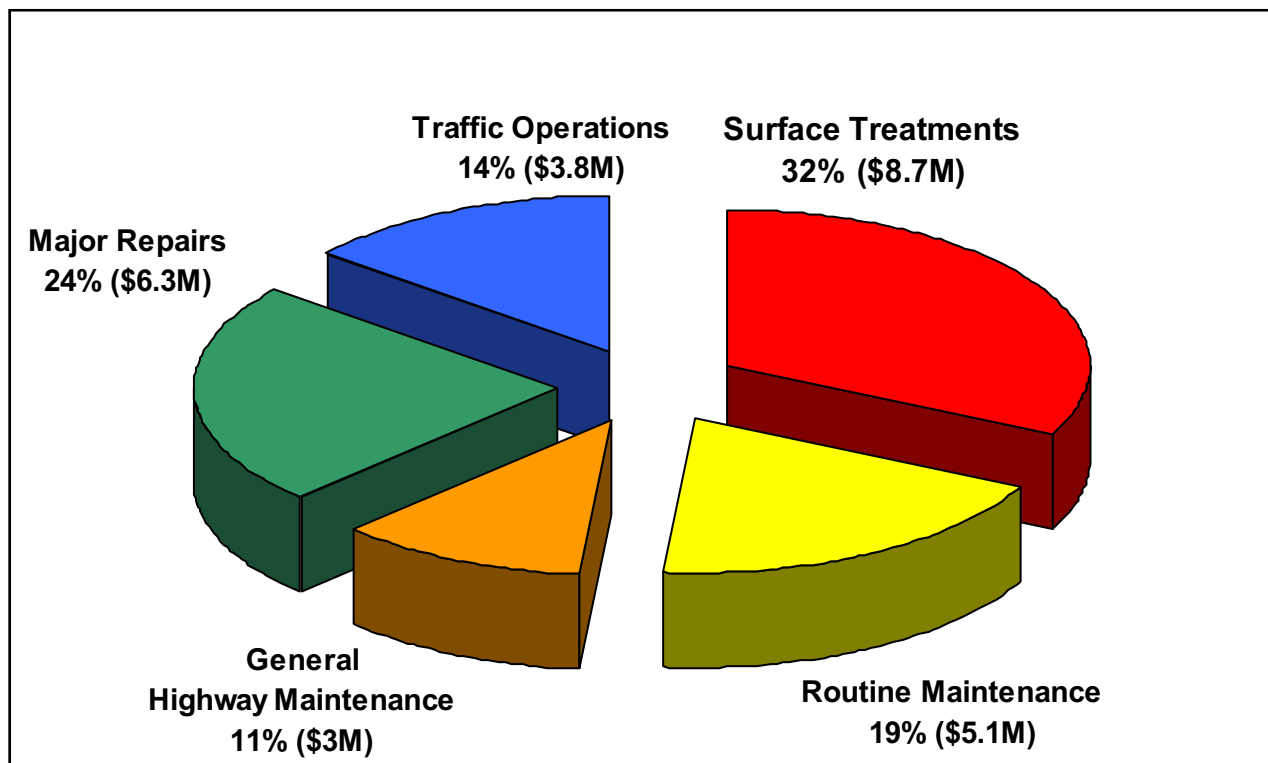
Surface treatments account for \$8.7 million of this year's budget. These treatments include chip sealing (355 lane miles), preservative sealing (100 lane miles) and asphalt rubber overlay (66 lane miles). Surface treatments extend the useful life of pavement and help avoid expensive roadway reconstruction.

Chip sealing is a sprayed application of asphalt binder immediately covered by a layer of one-sized aggregates. The chip seal provides a new wearing surface.

Preservative sealing involves applying a mixture of asphalt, sand, mineral filler and water onto the roadway.

Asphalt rubber overlay blends asphalt rubber cement and aggregate together. Both are laid and compacted at high

**Figure 6. Maintenance and Operations Highlights**



## 2005 Maintenance and Operations Highlights (continued)

temperatures. This preventative measure is required for deteriorated roads and improves the function condition of pavement.

### Routine Maintenance

The purpose of the Roadway Maintenance activity is to provide upkeep of roadways primarily in the unincorporated areas of the County. Routine maintenance accounted for \$5.1 million of this year's budget. Routine maintenance includes :

- Grading dirt roads (576 miles approximately 7 times per year).
- Grading the shoulders of paved roadways (1075 miles 3 times per year).
- Sweeping the paved arterials (70 miles) every 3 weeks.
- Sweeping local roads (567 miles) every 8 weeks.
- Filling surface cracks and potholes.

### General Highway Maintenance

General highway maintenance accounts for \$3 million dedicated to financing such activities as:

- Adopt-A-Highway program
- Mowing
- Trash and weed pickup
- Ditch and channel maintenance
- Storm debris removal
- Flooded roadway barricading and maintenance
- Median maintenance
- Graffiti cleanup
- Curb and gutter maintenance

### Major Repairs

Major repairs were budgeted at \$6.3 million. Major repairs include:

- Roadways rehabilitation
- Re-grading and plating (resurfacing) a dirt road with an aggregate base
- Bridge repairs
- Guardrail retrofits
- Valley gutters construction

### Traffic Operations

Traffic operations account for nearly \$3.8 million of the maintenance and operations budget. Traffic operations include:

- Re-striping the roads
- Maintaining and installing traffic signs and signals



**Lake Forest Drive, Sun City**